

Louisiana Office of Public Health Laboratories	
Test Name	<i>Vibrio</i> Conventional PCR
PHL Location	Office of Public Health Laboratory Baton Rouge
CPT Code	83891, 83894, 83898
Synonyms	Vibrio multiplex, cholera toxin
Brief Description of Test	Conventional PCR for – <i>V. parahaemolyticus</i> flaE gene, <i>V. vulnificus</i> cytolysin gene, <i>V. mimicus</i> sodB gene, <i>V. cholerae</i> sodB gene. <i>V. cholera</i> toxin gene (proteins A and B) checked for on <i>V. cholera</i> isolates
Possible Results	<i>V. parahaemolyticus</i> flaE gene Detected or Not Detected <i>V. vulnificus</i> cytolysin gene Detected or Not Detected <i>V. mimicus</i> sodB gene Detected or Not Detected <i>V. cholerae</i> sodB gene Detected or Not Detected <i>V. cholerae</i> toxin gene Detected or Not Detected Inconclusive – No Culture Available for Confirmation
Reference Range	Not Detected
Specimen Type	Actively growing, pure culture inoculated in/on unexpired media preferred
Specimen Container(s):	Leak proof, screw cap slants or tubes. Do not send inoculated agar plates through the mail system.
Minimum volume accepted:	N/A
Collection Instructions	Label specimen with Patient Name and a 2nd Unique Identifier such as a chart number or medical record number. DOB is not considered unique.  Complete a LAB Form 93 to accompany the sample. Lab submission form must be thoroughly completed with patient's first and last name, 2 <sup>nd</sup> patient identifier, gender, date of birth, date and time of collection, specimen source, test requested, submitter's name, address, fax and contact number. Additional information regarding patients' address is requested.  Transport specimen to laboratory as soon as possible after collection/incubation. Keep submission forms insulated from specimens.
Storage and Transport Instructions	Store and transport under ambient conditions. Send sample to the Office of Public Health Laboratory Baton Rouge, 1209 Leesville Avenue, Baton Rouge, LA 70802

Causes for Rejection	Two unique identifiers <b>MUST</b> be recorded on the specimen <b>AND</b> the Lab 93 form. A missing identifier on the tube will be an automatic rejection. If the identifiers are missing from the lab form, the submitter must be contacted and a new form with this information must be faxed back to the lab before testing/reporting will take place.
Limitations of the Procedure	PCR results should not be used as a sole test for sample identification.
Interfering Substances	N/A for direct culture testing
References	<p>C. Tarr et al 2007. Identification of <i>Vibrio</i> Isolates by a Multiplex PCR Assay and <i>rpoB</i> Sequence Determination. Journal of Clinical Microbiology 45:134-140</p> <p>Fields et al 1992. Use of Polymerase Chain Reaction for Detection of Toxigenic <i>Vibrio cholerae</i> 01 Strains from the Latin American Cholera Epidemic. Journal of Clinical Microbiology 30:2118-2121</p> <p>R.F Wang et al. 1997. A Universal Protocol for PCR detection of 13 species of foodborne pathogens in foods. Journal of Applied Microbiology 83:727-736</p>
Additional Information	Primers for this test were developed by C. Tarr et al 2007. Assay performance characteristics were determined by the Louisiana Office of Public Health Central Lab. This test has not been cleared or approved by the U.S. Food and Drug Administration.
Release Date	3/15/2016
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